Service Manual

Mini Cassette

Auto-Reverse Cassette Recorder with Voice Activated System

RQ-382

(Silver)



This is the Service Manual for the following area.

M ...For

···For U.S.A.

RQ-382 MECHANISM SERIES

■ SPECIFICATIONS

Power Requirement: AC; 120 V, 60 Hz (with included

Panasonic AC Adaptor)

Battery; 3V (Two "AA" size batteries) (Panasonic UM-3 or equivalent) Car Battery; with optional Panasonic

Car adaptor

RP-993 and Panasonic DC Plug Adaptor

RP-007

Power Consumption: 4W (AC only)
Power Output: 600 mW (R.M.S. max.)

Frequency Response: 250~7,000 Hz

Motor: Electrical governor motor

Tape Speed: 17/8 ips (4.8 cm/s)

Track System: 2-track monaural recoding and playback

Recoding System: AC bias, Magnet erase

Jacks: Mic; sensitivity 0.25 mV/applicable

microphone impedance $200{\sim}600\Omega$

(ф3.5)

DC IN; 3V (φ2.5) Monitor; 8Ω (φ3.5)

Speaker: $1^{25}I_{32}$ " (4.5 cm) PM Dynamic Speaker, 8Ω

Dimensions: $2^{7}/_{8}"(W) \times 4^{7}/_{16}"(H) \times 1^{3}/_{8}"(D)$

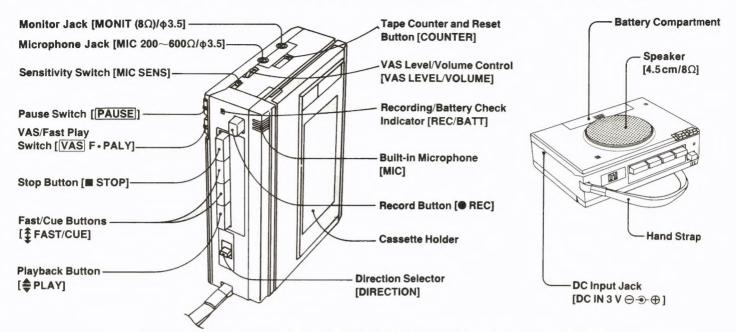
[82.5(W)×113(H)×34.5(D)]mm

Weight: 10.2 oz (290 g) without batteries

Weights and dimensions shown are approximate. Design and specifications are subject to change without notice.

Matsushita Services Company 50 Meadowland Parkway, Secaucus, New Jersey 07094 Panasonic Hawaii Inc. 91-238 Kauhi St. Ewa Beach P.O. Box 774 Honolulu, Hawaii 96808-0774 Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. Ave. 65 De Infanteria, KM 9.7 Victoria Industrial Park Carolina, Puerto Rico 00630

LOCATION OF CONTROLS AND COMPONENTS



DISASSEMBLY INSTRUCTIONS

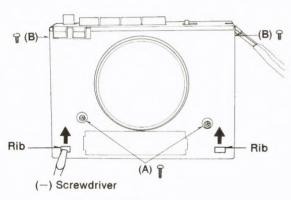


Fig. 1

- 1. Remove the screw (A) (2×8) mm $\times2$.
- 2. Remove the screw (B) (1.6×4) mm $\times2$.
- 3. Push the rib with screwdriver in the direction of arrow and remove the Rear Cabinet Ass'y.

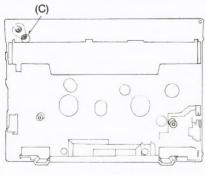


Fig. 3

5. Remove the screw (C) (1.6×4)mm×1 and then remove the microphone holder and microphone.

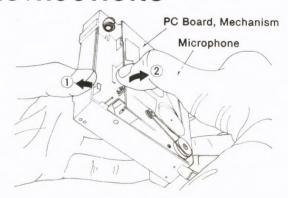


Fig. 2

Open the bottom of the front cabinet in the direction of arrow ①, and remove the PC board and mechanism in the direction of arrow ②. (Be careful not be break the microphone wire.)

Note: When removing the PC board and the mechanism, the jack cover and microphone sensitivity selector knob will come off, so be careful not to lose them.

(Assembly precaution: Mounting the Battery Terminal after aligning the Battery Terminal with the Rear Cabinet Ass'y.)

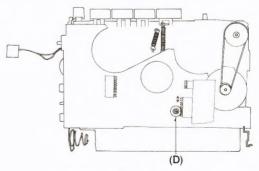


Fig. 4

6. Remove the screw (D) (1.6×4) mm $\times1$.

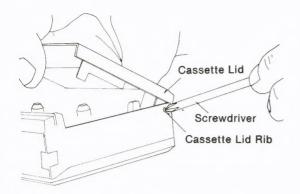


Fig. 5

7. Push the rib with the end of a Phillips screwdriver to remove the cassette compartment.

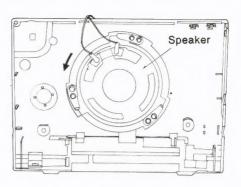


Fig.6

8. Turn the speaker in the direction of the arrow to remove it.

MEASUREMENTS AND ADJUSTMENTS

ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

- Set volume control to maximum.
 Set F. PLAY/VAS switch to OFF.
 Set MIC SENS switch to OFF.

- 4. Set PAUSE OFF/Lock switch to OFF.
- 5. Set power source voltage to 3V DC.

■ ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Head azimuth	QZZCFM (8kHz, -20dB)	Headphones jack	Maximum output	Head adjustment screw	
Governor circuit (μ adjustment)	QZZCWAT	Headphones jack	Wow and flutter: Less than 0.5% (RMS)	Short the slit(B) by soldering.	Before measurement, short the slit (A) and open the slit (B) by soldering.
Tape speed	QZZCWAT	Headphones jack	3000± $^{90}_{60}$ Hz	VR2	 (1) Playback the test tape in both forward and reverse directions. (2) Adjust VR2 to obtain counter readings within specified tolerances for both directions.

■ ADJUSTMENT POINT

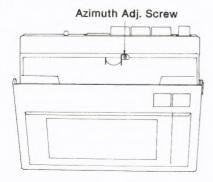


Fig. 1

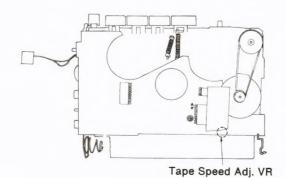


Fig. 2

— 3 —

ELECTRICAL PARTS LIST

Numbering System of Resistor

Numbering System of Capacitor

ERD ERD	25	F	J
Туре	Wattage	Shape	Tolerance
ERX	2	AN	J
Type	Wattage	Shape	Tolerance

ECKD ECKD	1H	102	Z	F
Туре	Voltage	Value	Tolerance	Peculiarit
ECEA	50	M	R47	
Туре	Voltage	Peculiarity	Value (0.47 μF)	
	Type ECEA	Type Voltage ECEA 50	ECKD 1H 102 Type Voltage Value (1000 pF) ECEA 50 M	ECKD 1H 102 Z Type Voltage Value (1000 pF) Tolerance (1000 pF) ECEA 50 M R47 Type Voltage Peculiarity Value

Resistor Type	Wattage Tolerance
ERD: Carbon	10 : 1/8 W J : ±5%
ERG: Metal Film	12 : ½ W
ERX: Metal Film	25 : 1/4 W
ERQ: Fuse Type Metal	1:1W
RRD: Carbon	18 : 1/8 W
(Chip Type)	

	Vol	T.1	
Capacitor Type	ECEA Type	Other	Tolerance
ECEA: Electrolytic	0J : 6.3 V	2H : 500 V DC	C : ±0.25 pF
ECCD: Ceramic	1A: 10 V	1 : 100 V	J: ±5%
ECKD: Ceramic	1C : 16 V	DKC: 400 V AC	K: ±10%
ECQM: Polyester	1E : 25 V		Z: +80%,
	1H : 50 V		-20%
ECQP: Polypropylene	1V : 35 V		P: +100%,
	50 : 50 V		-0%
ECET: Electrolytic			
ECEA□□□N: Non Polar	25 : 25 V		
Electrolytic	16 : 16 V		
QCU : Ceramic (Chip Type)			
ECUX: Ceramic (Chip Type)			

REPLACEMENT PARTS LIST

Important safety notice Components identified by \triangle mark have special charactristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.
CAPA	CITORS	C 10	ECEA1HKK010	RES	ISTORS	R 12	RRD10XJ331	R 28	RRD10XJ391
		C 13, 17, 27, 32,				R 13	RRD10XJ181	R 29	RRD10XJ824
1, 11	QCUX1E333MRL	34, 35	QCUX1E104ZFX	R 1, 11	RRD10XJ152	R 14	RRD18XJ271	R 31	RRD10XJ823
2	QCUX1H152KUX			R 2, 16	RRD10XJ562	R 15, 30	RRD10XJ332	R 32	RRD10XJ274
3, 20, 26	QCUX1H222MRL	C 15, 24, 30	ECEA1CKK4R7	R 3, 34	RRD10XJ153	R 17	RRD10XJ751	R 35	RRD10XJ474
4, 38	QCUX1H102MRL	C 16	QCUX1E223MRL	B 4	RRD10XJ5R6	R 19	RRD10XJ224	R 36, 38	RRD10XJ221
5, 25	QCUX1H103MRL	C 18, 19	QCUX1E224ZFX	R 5	ERSB39JR40	R 21	RRD18XJ183	R 39	RRD18XJ100
6, 7, 29, 33,		C 21	ECEA1EKK3R3	R 6, 40	RRD10XJ4R7	R 22	RRD10XJ820		
37	ECEA0GKK220	C 22	ECEA0GKS470	R 7	RRD10XJ682	R 23	RRD10XJ101	CHIP	JUMPER
8	ECSE0JY225R	C 28	ECEA0GKS221	R 8, 37	RRD10XJ822	R 24	ERSB15J103	-11-11-11-11-11-11-11-11-11-11-11-11-11	
9, 12, 14, 23,		C 31	QCUX1H473ZFX	R 9, 20, 33	RRD10XJ273			RJ 1, 4, 5, 6, 7	RRD18XJ000
36	ECEA0GKS101			R 10, 25	RRD10XJ100	R 27	RRD18XJ471	RJ 2	RRD10XJ000

Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description
	INTEGRA	TED CIRCUITS			DIODE		sw	ITCHES
IC 1 IC 2 IC 3	AN6221S AN6230S AN6612S	IC (PRE AMP) IC (POWER AMP) IC (MOTOR CONTROL)	D 2	SLB22UR3	LED (REC/BATT IND)	S 1 S 2 S 3 S 4	QSS4224 RSS2B40Z MSW1273NBK	Slide Switch (REC/PLAY) Slide Switch (MIC SENS) Leaf Switch (Motor)
	TRAM	NSISTORS	L1	QLB0195	Coil (BIAS OSC)	S 5 S 6	QSS2235 QSS1228 MSW1236	Slide Switch (VAS/F•PLAY) Slide Switch (PAUSE) Leaf Switch
Q 1 Q 2	2SC2412KS 2SA881SERF	Transistor (BIAS OSC) Transistor (MOTOR DRIVE)		VARIABL	E RESISTORS	S 7	QSS2238	(F/R Mode Select) Slide Switch
Q 3, 4, 5, €	2SA1037KS	Transistor (VAS)	VR 1 VR 2	EVLFBAA00A14 EVND1AA00B3			J	(Direction Select) ACKS
					(14,000,000,000,000,000,000,000,000,000,0	J 1	QJA0199	Jack (MIC)
						J 2	RJJD3S5Z RJJB2Z	Jack (MONITOR) Jack (DC In)

Note:

 S1-1~S1-3: REC/PLAY Selector Swite 	n in '	"PLAY"
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Position.

(P... PLAY, R... REC)

2. S2-1, S2-2: MIC SENS Selector Switch in "High"

Position.

(L... Low, H... High)

3. S3: Motor Switch in "ON" Position.

4. S4-1, S4-2: F. PLAY/VAS Switch in "OFF" Position.

(ON...ON, OF...OFF)

5. S5: PAUSE OFF/Lock Switch in "OFF"

Position.

(ON...ON, OF...OFF)

6. S6: FWD/REV mode Select Switch in "OFF"

Position.

7. S7: DIRECTION Select Switch in "FWD"

Position.

(F...FWD, R...REV)

8. VR1: Volume/VAS Level control VR.

VR2: Tape speed adjustment VR.
 DC Voltage measurement are taken with electronics

voltmeter from negative terminal of battery.

))...REC. (

)... VAS OFF,

No mark... PLAY, (((())... VAS ON transistors and diodes.

One type number is use

One type number is used for supply parts number and production parts number which they are identical.

Described is schematic diagram are two types of numbers;
 the supply parts number and production parts number for

e.g. Q1

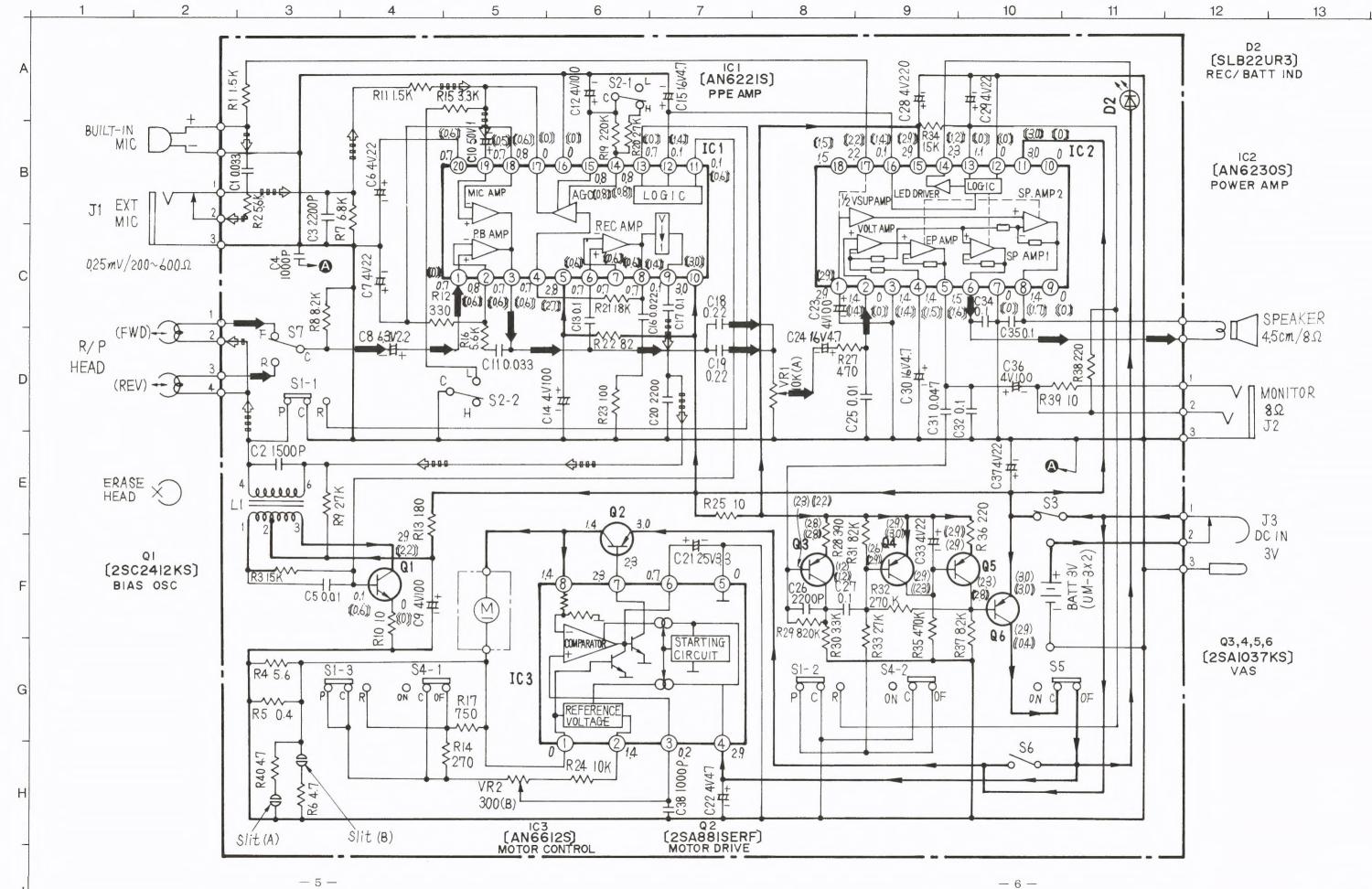
2SC2412NRTB, LNSTB—Production parts number [2SC2412]——Supply parts number

The supply parts number is described alone in the replacement parts list.

 This schematic diagram may be modified at any time with the development of new technology.

PLAYBACK Signal Line

SCHEMATIC DIAGRAM MODEL



CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM

12 13 14 15 16 17 18 19 20 21 22 23 24

D2 (SLB22UR3) EC/BATT IND

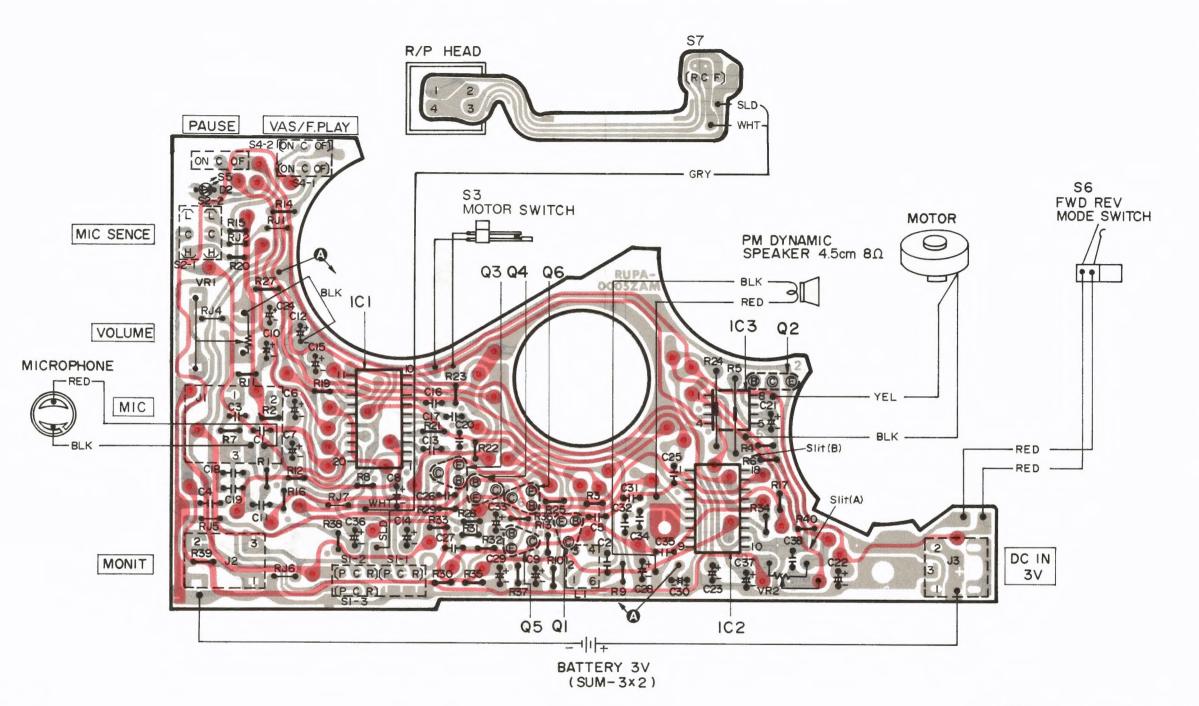
IC2 (AN6230S) POWER AMP

3 SPEAKE 4.5cm/85

MONITOR 8Ω J2

J3 DC IN 3V

Q3,4,5,6 2SAIO37KS) VAS



NOTES

 The circuit shown in some on the conductor indicates printed circuit on the back side of the printed circuit board.

Q2

Q3~6

- The circuit shown in on the conductor indicates printed circuit on the front side of the circuit board, which is put the mechanism unit.
- · Chip resistor
- The circuit board diagram may be modified at any time with the development of new technology.

NOTES:	ORGOrange
BLKBlack	PNKPink
BLUBlue	REDRed
BRNBrown	SLDShield Wire
GRYGray	VLTViolet
GRNGreen	WHTWhite
L.BLULight Blue	YELYellow
NILNo Color Mark	

■ SPRING LOCATIONS

A

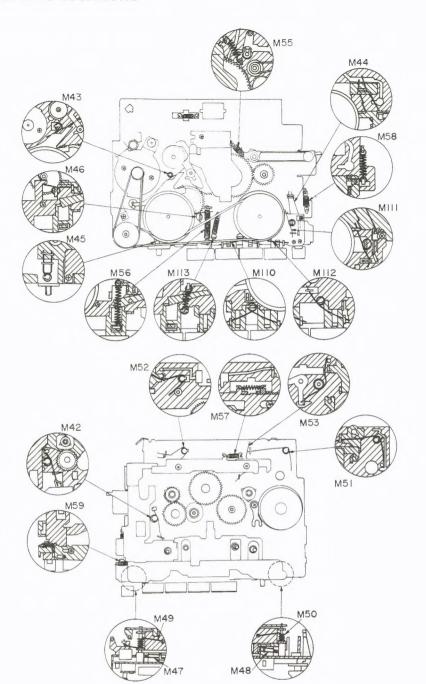
В

D

E

G

Н

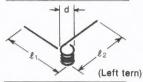




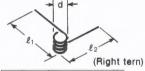
Ref. No.	ℓ×d(mm)
M55	7×3
M56	13.5×3
M57	9×2
M58	11×3
M59	6.5×2
M113	11×3



Ref. No.	ℓ×d(mm)
M86	5.5×4.5
M91	3.5×3



Ref. No.	$\ell_1 \times \ell_2 \times d(mm)$
M43	10×18×3.5
M44	18.5×18.5×5
M45	13×13.5×4
M46	12×18×4.5
M47	15×13×4.5
M49	13.5×15×3.2
M53	13.7×18×6
M54	7×10.5×2.5
M111	11×11×4



Ref. No.	$\ell_1 \times \ell_2 \times d(mm)$
M48	14.5×15×4.5
M50	14.6×10×3.2
M51	14.5×22.8×4
M52	14×16×4
M110	14.5×14.5×4
M112	13×9×4

Screw Dimensions Quick Reference

• Dimensions

XSN 3 + 10=Pan head machine screw, 3mm in diameter, 10mm long.



• Types

Precision machine screw	arte i	Machine screw	Tapping/Tap-tight machine screw				
XQC Flat head	XSB	Binding head	XTB	Binding head			
XQG Oval fillister head	XSC	Oval countersunk head	XTC	Oval countersunk head			
XQH Flat fillister head	XSH	Flat fillister head	XTN	Pan head			
XQS Flat head	XSN	Pan head Flat head	XTS	Flat head			

Part Name & Description

E Ring \(\phi\)2 (FF Lever Ass'y E Ring φ1.5 (Pinch Roller

Pulley Ass'y M'tg) Washer ϕ 2.1× ϕ 5 (Flywheel

Ass'y) Washer $\phi 2.1 \times \phi 3$ (Flywheel

Ass'y M'tg) Washer \(\phi 1.65 \) (REC Change Rod, Main Gear Ass'y, Slow Down Gear 1, Select Gear

etc. M'tg) Washer φ1.35 (Relay Gear,

Erase Head Lever M'tg)

Washer #1.25 (Auto Stop

Ass'y, Power Switch, Front Cabinet Angle M'tg) Screw ⊕1.6×6 (Sub Chassis Ass'y M'tg)

Screw ⊕1.6×7 (Sub Chassis Ass'y M'tg)

Screw ⊕1.6×4 (Rod Guide, F/R Change Switch, Counter

Cam (Auto Stop Detecting)

Felt (Auto Stop Detecting

Bush (Auto Stop Detecting

Spring (Auto Stop Detecting

Head Ass'y (REC/PLAY)
FWC (REC/PLAY Head Ass'y)

Spring (REC/PLAY Head Ass'y) Screw ⊕2×4 (REC/PLAY

Head Ass'y M'tg) Screw ⊕2×3.5 (REC/PLAY

Head Ass'y Azimuth Adjustment)

Gear (Slow Down 1)

M'tg) Sub Chassis Ass'y

Rod (F/R Change)

Rod Ass'y, PLAY Button

Rod Ass'y, REW Button

Rod Ass'y, FF Button (Silver)

Guide (Rod) Rod (Power Switch)

M'tg)

Base Ass'y (Main Gear) Gear Ass'y (Main)

Collar (Sub Chassis Ass'y

Screw ⊕1.6×5 (Rod Guide

Spring (Cassette Retainer) Base (Head)

Washer $\phi 2.9 \times \phi 4.6$ (Reel

Screw @1.7 x 1.6 (Motor

Screw ⊕1.6×3 (F/R

Control Rod M'tg)

Gear B (Reel Table) Pulley (Counter)

Chassis Ass'v

Table Gear B)

Spacer (Head)

Synchronize Lever, F/R

Detecting Lever M'tg)

XQN16 + CF25 Screw \oplus 1.6 × 2.5 (Main Gear

Ass'y M'tg)

Plate M'to)

Ass'y FWD) Washer ϕ 1.85 (Flywheel

Arm Ass'v M'ta)

(Intermediate

Washer $\phi 1.25 \times \phi 3.5$

Ref. No.

M 63

M 64

M 65

M 66

M 67

M 71

M 73

M 74

M 75

M 76

M 77

M 78

M 80 M 81

M 82

M 83

M 84

M 85

M 86

M 87

M 89

M 90-1

M 91

M 92

M 93

M 96

M 99

M 100

M 101

M 102

M 103

M 105

M 106

M 107

M 108

Part No.

XUC2FT

XUC15FT

BNW1247

RNWA0009Z

RNWA00082

XQN16+CF6

XQN16+CF7

XQN17+C16

XTNQ16C4D

QHQ1371

1UAA382Z

RNL24Z

RNB8Z

RNW290Z

RUQA0003Z

RUSA00037 RUAA0006Z

RMDA0004Z

1JH0012Z

QBC1496

XSN2 + 4

RHEA0001Z

4UAA3827

RNG227

RNGG0003Z

BNCA00017

XQN16+CF5

6UAA382Z

RUGA0001Z

RNRA0008Z RNRA0009Z

RNRA00057

2NRA382Z

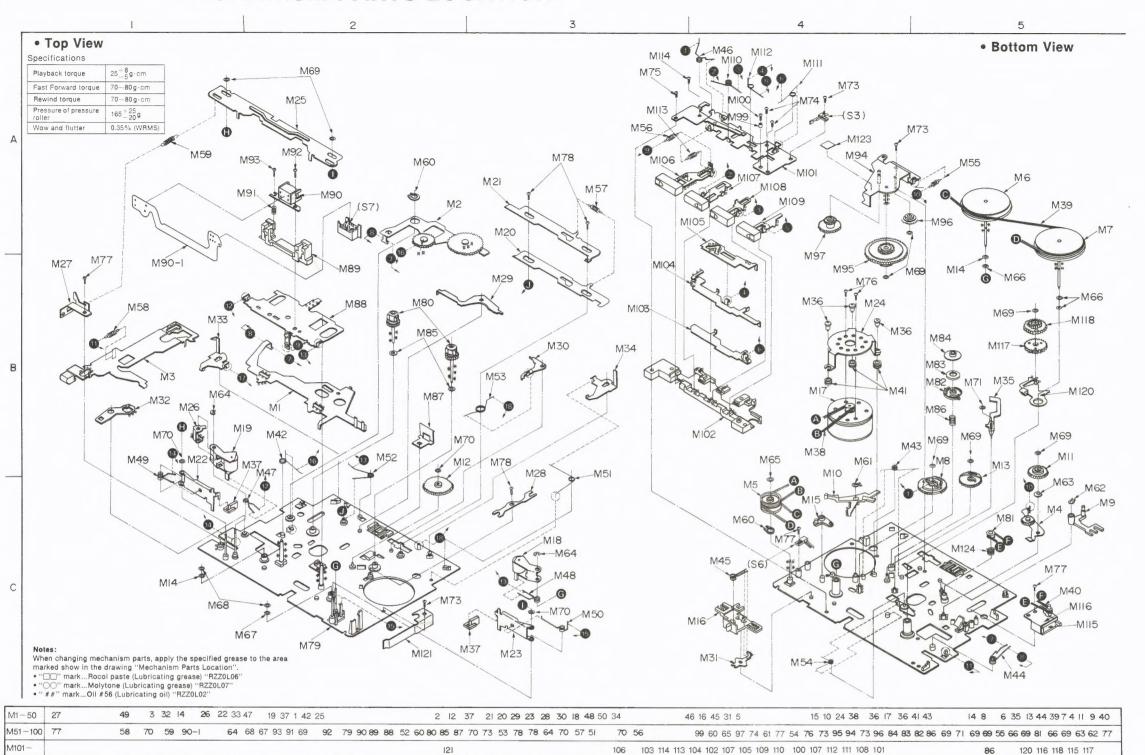
3NRA382Z

RUPA0006Z

RHS732Z

RNG25Z RDRA0003Z

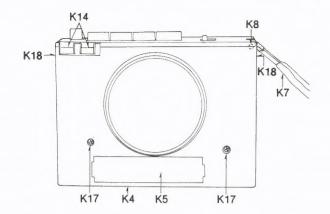
MECHANISM PARTS LOCATION

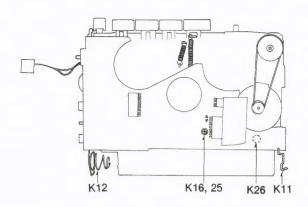


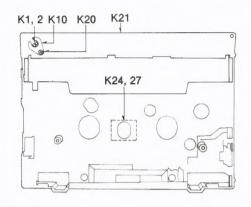
REPLA	CEMENT	PARTS	LIST
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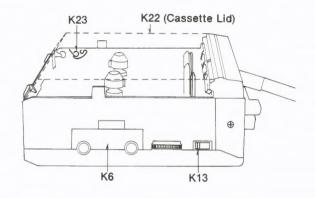
															141 100	SITINASSEE	(Silver)
EPLACE	EMENT PAR	TS LIST													M 109	4NRA382Z	Rod Ass'y, STOP Button
Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	M 110 M 111	RUW64Z RUWA0006Z	(Silver) Spring (FF/REW) Spring (Switch Rod)
	MECHAI	NICAL PARTS	M 13	RNG28Z	Gear (Auto Stop)	M 25	RNRA0010Z	Rod (REC Change)	M 40	RDVA0003Z	Belt (Counter)	M 51	RUWA0009Z	Spring (Erase Lever R)			opining (entition rise)
			M 14	RNWA0001ZA	Washer \$\phi 2.1 \times \phi 3 (Flywheel	M 26	RNLA0009Z	Lever (Rotation)			(M 52	RUWA0010Z	Spring (Erase Lever L)	M 112	RUWA0013Z	Spring (STOP Button Rod
M 1	7NRA382Z	Rod Ass'y (Change)			Ass'y)	M 27	RULA0003Z	Retainer (REC Rod)	M 41	QBG1676	Rubber (Motor Cushion)	M 53	RUWA0011Z	Spring (Erase Protect Lever)			Ass'y)
M 2	RNLG0008Z	Lever Ass'y (F/R)	M 15	RNL38Z	Lever (Change)	M 28	RNLA0010Z	Lever (F/R Synchronize)	M 42	RUWA0004Z	Spring (Idler Lever Ass'y)	M 54	RUWA0012Z	Spring (Brake)	M 113	RUDA0005Z	Spring (PLAY Button Rod
M 3	5NRA382Z	Rod Ass'y, REC (Red)	M 16	RNR23Z	Rod, Change (Blue)	M 29	RNLA0011Z	Lever (Erase Protect A)	M 43	RUW60Z	Spring (Auto Stop Detecting	M 55	RUD40Z	Spring (FF Lever Ass'y)			Ass'y)
M 4	RNLG0009Z	Lever Ass'y (FF)	M 17	RFM89Z	Motor Ass'y	M 30	RNLA0012Z	Lever (Erase Protect B)			Lever)	M 56	RUDA0001Z	Spring (Head Basc)	M 114	XTNQ16C3D	Screw ⊕1.6×3 (Rod Guide
M 5	1DRA382Z	Pulley Ass'y (Intermediate)	M 18	QXL1722	Arm Ass'y (Pinch Roller,				M 44	RUW62Z	Spring (F/R Lever Ass'y)	M 57	RUDA0002Z	Spring (Block Rod)			M'tg)
M 6	1DWA382Z	Flywheel Ass'y (FWD)			FWD)	M 31	RNL37Z	Lever (Direction Rod)	M 45	RUW65Z	Spring (Pause Change Rod)	M 58	QBT2055	Spring (Pause Rod)	M 115	RSEA0001Z	Counter (Black)
M 7	2DWA382Z	Flywheel Ass'y (REV)	M 19	QXL1723	Arm Ass'y (Pinch Roller,	M 32	RNLA0017Z	Lever (F/R Relay)	M 46	RUWA0005Z	Spring (Power Cam)	M 59	RUDA0004Z	Spring (REC Change Rod)	M 116	RMUA0001Z	Plate (Counter)
M 8	RNGA0001Z	Cam (Power)			REV)	M 33	RNLA0004Z	Lever (Erase L)	M 47	RUWA0015Z	Spring (Pinch Roller Arm	M 60	XUBQ4FT	C Ring $\phi 4$ (F/R Change Lever,	M 117	RNGA0002Z	Gear (Select 2)
M 9	RNLA0013Z	Lever (REC/PLAY Switch	M 20	RNRA0002Z	Rod (REC Block)	M 34	RNLA0005Z	Lever (Erase R)			Ass'y REV)			Change Rod B M'tg)	M 118	RNGA0003Z	Gear (Select 1)
		Change)				M 35	RNL25Z	Lever (Auto Stop Detecting)	M 48	RUWA0016Z	Spring (Pinch Roller Arm				M 120	2NLA382Z	Lever Ass'y (Idler)
M 10	RNLA0014Z	Lever (Stopper)	M 21	RNRA0003Z	Rod (F/R Control)	M 36	QHQ1304	Screw (Motor Ass'y M'tg)			Ass'y FWD)	M 61	XUBQ3FT	C Ring	M 121	RMDA0002Z	Angle (Front Cabinet M'tg)
			M 22	RNLA0006Z	Lever (Erase Head L)	M 37	RJH2C16XZ	Head (Erase)	M 49	RUWA0007Z	Spring (Erase Head Lever L)			M'tg)	M 123	RHSA0008Z	Felt (Post Main Gear Ass'y)
M 11	RNG18Z	Gear (FF)	M 23	RNLA0007Z	Lever (Erase Head R)	M 38	RDV47Z	Belt (Motor)	M 50	RUWA0008Z	Spring (Erase Head Lever R)	M 62	XUBQ2FT	C Ring ϕ 2 (R/P Switch Lever			
M 12	RNG24Z	Gear (Relay)	M 24	RULA0002Z	Plate (Motor Ass'y)	M 39	RDV48Z	Belt (Flywheel)						M'tg)	M 124	RUQA0002Z	Spring (Counter Pulley)

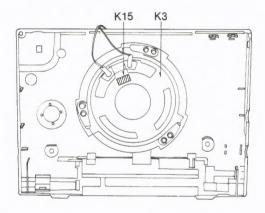
CABINET PARTS LOCATION











REPLACEMENT PARTS LIST

Important safety notice
Components identified by \triangle mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

Note:

The color name in parentheses () in the parts

mponents, use list is the color of the part.

Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description
	CABIN	IET PARTS	K 15	QBM1344	Retainer (Speaker)	K 26	RNCA0002Z	Collar (Front Cabinet)
< 1 < 2	WM063Y QBG1695	Microphone K 16 XQNQC16A4F Screw ⊕1.6×4 (P.C Board M'tg)		K 27	RHPA0006Z	Sheet (Reflection Sheet Sticking)		
< 3	EAS45P108C	Speaker	K 17	XTN2 + 8JFY	Screw ⊕2×8, Rear Cabinet Ass'y M'tg (Silver)		ACCE	SSORIES
< 4 < 5	RYFQ382J7 RYNQ382J7	Rear Cabinet Ass'y (Gray) Battery Cover Ass'y (Gray)	K 18	XQN16 + A4FZ	Screw ⊕1.6×4, Front	A 1	RP29XP	AC Adaptor △
< 6 < 7	RHRA0004Z QYH0116K	Jack Board (Black) Hand Strap Ass'y (Black)	K 20	XTNQ16C4D	Cabinet M'tg (Black) Screw ⊕1.6×4 (Microphone M'tg)	A 2 A 3	RQKA0001Z RQX4751Z	Carrying Case (Black) Operating Instructions
< 8 < 10 < 11	QMN2859 RMDA0003Z RJCA0003Z	Shaft (Hand Strap Ass'y) Angle (Microphone M'tg) Terminal (Battery +)	K 21 K 22	RKMA0003Y RYQQ382M	Front Cabinet (Black) Cassette Lid Ass'y (Gray)			CKINGS
< 12 < 13 < 14	RJCA0004Z RBDA0001Z RBDA0002Z	Terminal (Battery -) Knob, MIC SENS (Red) Knob, PAUSE, VAS (Gray)	K 23 K 24 K 25	RUSA0004Z RHP110Y XWA17BFY	Spring (Cassette Lid Ass'y) Sheet, Reflection (Silver) Washer ϕ 1.7 (P.C Board M'tg)	P 1 P 2 P 3 P 4	RPKA0010Z XZB16X25A02 RPNA0006Z RPNA0007Z	Gift Box Polyethylene Cover Cushion Pad